

Hillsboro Sustainability Task Force: Indicators Assessment Matrix

Sustainability Focus Area: Energy

Goals:

- Reduce greenhouse gas emissions;
- Reduce use of non-renewable energy resources; and
- Expand use of renewable energy resources to meet demand

| Proposed Indicator | Target | Assessment | Data Source | Pilot Project Options |
|----------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Hillsboro Energy Map (2010 baseline)/FRED | 50% reduction in non-renewable inputs-output sources by 2035 (2010 base) | Allows for comparison of Hillsboro-centric energy and carbon output sources over time. Potential USDOE FRED tool for ongoing tracking. | City of Hillsboro | <ul style="list-style-type: none">• Overarching goal indicator; pilot projects fulfilled through other indicator targets. |
| 2. Residential energy consumption per capita | 10% reduction by 2020; 25% by 2035 (2010 base) | Allows measurement of citywide trends, even as City pop increases. | PGE NW Natural Energy Map/FRED CEWO | <ul style="list-style-type: none">• Education: e.g., Power Down Challenge for residents |
| 3. # of residential energy retrofits | 20% of CEWO-eligible single family homes by 2020 | Places emphasis on proactive energy efficiency. State building code has built-in efficiency requirements. | PGE NW Natural Energy Map | <ul style="list-style-type: none">• Focused campaign with CEWO and ETO; YAC; HS senior projects; PGE interns; Energy Corps; realtors/mortgage/bankers; case studies• Distribute energy efficiency information and resource links through City Building Department during mandatory inspections |

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| 4. # of industrial, commercial and institutional (ICI) customers participating in energy efficiency programs and net total energy savings by industry classification | Sustained annual increase in participation and energy use reduction by industry classification | Allows for voluntary participation, comparison with same type of operations/buildings, parallel measurement to residential | Energy Map/FRED US DOE US EPA Energy Star PGE NW Natural Energy Trust of Oregon | <ul style="list-style-type: none"> Better Buildings/Better Plants Challenge (DOE) Business education program focus on small/med business and peer to peer outreach Develop total Cost of Ownership model for commercial development Identify and document industry classifications and energy use data patterns (PGE) |
| 5. % energy offset by renewable source purchases / local production | 75% of total by 2035 (2010 base) | Already tracking. Reporting would need to include EPA offset data and any new local power source impact. Could anecdotally capture and report data on energy produced by renewable sources. | US EPA PGE NW Natural Energy Trust of Oregon | <ul style="list-style-type: none"> Convert biogas from wastewater treatment to natural gas for fleet US DOE Rooftop Solar Challenge grant |
| 6. Average vehicle miles traveled | 25% by 2035 (2010 base) | Data readily-accessible. | Census Metro ODOT | <ul style="list-style-type: none"> Promote EPA SmartWay program to businesses for freight and for consumer information to inform car/truck purchases |
| 7. Single occupancy vehicle trips as % of all trips | Reduce to 30% by 2035 (2010 base – 73%) | See above. | Census | <ul style="list-style-type: none"> Mobility hub pilot program Enhancement of bike facilities |
| 8. Use of public transit | Sustained annual increase from current level of 7% (2012) | Data readily-accessible through transit providers. | TriMet Metro | <ul style="list-style-type: none"> Promote and enhance employer commute incentive programs Mobility hub pilot program |